

## ABSTRACT

An imaging transducer assembly is combined with a sensor of a medical positioning system, forming a transducer/sensor assembly. In one embodiment, the sensor includes a coil proximally coupled with the imaging transducer. A cable having first and second  
5 wires are proximally coupled to the coil. A non-conductive potting layer is wrapped around the coil. Traces are formed in the non-conductive potting layer that are used to electrically couple the imaging transducer with the first and second wires of the cable.